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TI Effect of grinding on the reactivity of fly ash
AU Carles-Gibergues, A.; Vaquier, A.
CS Lab. Gen. Civil, INSA, Fr.
SO Ciments, Betons, Platres, Chaux (1985), 752, 46-50
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DT Journal
LA French
CC 58-2 (Cement, Concrete, and Related Building Materials)
AB The effect of grinding on the pozzolanic reactivity of fly ash was studied. The chemical and mineralogical composition, morphol., granulometry, sp. surface, porosity, and solubility in pure water and in water saturated with Ca(OH)2 were investigated. The results indicated that the increase in strength of concrete containing the fly ash is not, or not entirely, due to the increased solubility of the fly ash. The initial rapid release of ettringite-forming sulfates and solubilization of SiO2 in the glass are not increased by grinding of the ash. The grinding results, at the same water/solid ratio, in more fluid pastes. The water requirement is thus decreased, resulting in decreased porosity of the set concrete and thus an improved mech. strength.
ST grinding fly ash pozzolanic reactivity
IT Concrete
(strength of, fly ash grinding in relation to)
IT Ashes (residues)
(fly, grinding of, pozzolanic reactivity and concrete strength in relation to)
IT Size reduction
(grinding, of fly ash, pozzolanic reacti